

**Flood Control Project Maintenance
Levee Inspections**

Fall 2015 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD2085	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.					
Reclamation District No. 2085 Kasson	M *	6.28						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	0.16%	0.05	0.01		
Encroachments					0.52			
Animal Control	0.01		0.01	0.16%				
Slope Stability	0.02		0.02	0.32%				
Erosion / Bank Caving		0.02	0.08	1.27%				
Crown Surface / Depressions / Rutting	0.01		0.01	0.16%				
<i>Supplemental</i>								
DWR Erosion Survey	0.02		0.02	0.32%				
DWR UCIP Field Study					0.09			
<i>LMA Totals:</i>	0.07	0.02	0.15	2.39% *	0.66	0.01	0.00	0.00

Unit No. 01 San Joaquin River LB	Overall Unit Rating	Total Unit Miles						
RD2085	A	5.29						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	0.19%	0.05	0.01		
Encroachments					0.52			
Animal Control	0.01		0.01	0.19%				
Slope Stability	0.02		0.02	0.38%				
Crown Surface / Depressions / Rutting	0.01		0.01	0.19%				
<i>Supplemental</i>								
DWR Erosion Survey	0.02		0.02	0.38%				
DWR UCIP Field Study					0.09			
<i>Unit Totals:</i>	0.07	0.00	0.07	1.32%	0.66	0.01	0.00	0.00

Unit No. 02 San Joaquin River	Overall Unit Rating	Total Unit Miles						
RD2085	A	0.70						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
No Items								
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%				

Unit No. 03 San Joaquin River	Overall Unit Rating	Total Unit Miles						
RD2085	U	0.29						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Erosion / Bank Caving		0.02	0.08	27.14%				
<i>Unit Totals:</i>	0.00	0.02	0.08	27.14%	0.00	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2015 Levee Inspection Results

Reclamation District No. 2085 Kasson

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			M	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Reclamation District No. 2085 Kasson

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	5.29
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	04/09/2015 - 04/09/2015		11/10/2015 - 11/10/2015	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Ralph Timan RD2085		Ralph Timan RD2085	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				o
					o
DWR ID	DWR_RD2085_01_s _ 2013_7				
Action/Comments					
Inspector Comments: The O&M Manual is available at the office.					

No Photos

LM Start		Rating **	A	Issue No.	9	
LM End		Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Emergency Supplies & Equipment				o	
					o	
DWR ID	DWR_RD2085_01_s _ 2013_9					
Action/Comments						
Inspector Comments: Flood fighting supplies are available at the River Club.						

No Photos

LM Start		Rating **	A	Issue No.	14	
LM End		Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Flood Preparedness & Training				°	
					°	
DWR ID	DWR_RD2085_01_s _ 2013_14					
Action/Comments						
Inspector Comments: The LMA has a flood fighting plan and training.						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start	0.12	Rating **	M	Issue No.	19
LM End	0.12	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.719052 °	37.719052 °
				-121.302928 °	-121.302928 °
DWR ID	DWR_RD2085_01_f_2015_19				
Action/Comments					
Add appropriate material and re-grade the levee to bring the crown above the design elevation. Inspector Comments: Disking on the levee shoulder.					

Photo 1 of 1 : FA_2015_RD2085_113_19_20151112_00019.jpg



View of the diskings on the levee crown shoulder.

LM Start	0.53	Rating **	M	Issue No.	55
LM End	0.53	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.723415 °	37.723415 °
				-121.298596 °	-121.298596 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:41350					
DS_ID:20677					
EP_NO: N/A					
FS_HLM: 0.473					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe abandoned. Erosion around pipe on WS slope.					
Pipe severely corroded. Pier badly damaged.					
FIELD_STRUCT_DESC: 14-inch steel stormdrain pipe through the					
levee 4.5 feet below crown. Pump on pile structure in ditch on the					
landward side. Siphon breaker in corrugated metal riser unit on the					
waterward shoulder. Originally included in the 1968 O&M manual.					
FS Date: 09/05/2013					

Photo 1 of 3 : UCIP_FA_2015_4399.jpg



Siphon breaker in 24-inch CMP riser on WS shoulder. Filled with soil.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start	0.53	Rating **	M	Issue No.	55 (cont)
LM End	0.53	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.723415 °	37.723415 °
				-121.298596 °	-121.298596 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:41350
 DS_ID:20677
 EP_NO: N/A
 FS_HLM: 0.473
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Pipe abandoned. Erosion around pipe on WS slope.
 Pipe severely corroded. Pier badly damaged.
 FIELD_STRUCT_DESC: 14-inch steel stormdrain pipe through the levee 4.5 feet below crown. Pump on pile structure in ditch on the landward side. Siphon breaker in corrugated metal riser unit on the waterward shoulder. Originally included in the 1968 O&M manual.
 FS Date: 09/05/2013

LM Start	0.53	Rating **	M	Issue No.	55 (cont)
LM End	0.53	Issue Type +	En	Location *	CR

Photo 2 of 3 : UCIP_FA_2015_4400.jpg



Pipe at WS toe.

Photo 3 of 3 : UCIP_FA_2015_4401.jpg



Pipe on WS with erosion into levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start	1.34	Rating **	M	Issue No.	6
LM End	1.38	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.714265 °	37.714056 °
				-121.289641 °	-121.289069 °
DWR ID	DWR_RD2085_01_s_2012_6				
Action/Comments					
Ditch Inspector Comments: Drainage ditch at levee toe.					

Photo 1 of 1 : FA_2015_RD2085_113_6_20150910_00003.jpg



View of the ditch at the landside levee toe.

LM Start	1.35	Rating **	M	Issue No.	56
LM End	1.35	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.714404 °	37.714404 °
				-121.289469 °	-121.289469 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:22285 DS_ID:24055 EP_NO: N/A FS_HLM: 1.289 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this modified crossing. FIELD_STRUCT_DESC: 12-inch steel pipe through the levee 3-feet below the crown. Pump mounted on pile structure in ditch on the landward side. Siphon breaker in 12-inch steel riser unit and a gatevalve on the waterward shoulder. (Permit No. 8189, 1972) FS Date: 09/10/2013					

Photo 1 of 3 : UCIP_FA_2015_2461.jpg



Pipe, gate valve, and siphon breaker visible on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start	1.35	Rating **	M	Issue No.	56 (cont)
LM End	1.35	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.714404 °	37.714404 °
				-121.289469 °	-121.289469 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:22285
 DS_ID:24055
 EP_NO: N/A
 FS_HLM: 1.289
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: No permit identified for this modified crossing.
 FIELD_STRUCT_DESC: 12-inch steel pipe through the levee 3-feet below the crown. Pump mounted on pile structure in ditch on the landward side. Siphon breaker in 12-inch steel riser unit and a gatevalve on the waterward shoulder. (Permit No. 8189, 1972)
 FS Date: 09/10/2013

LM Start	1.35	Rating **	M	Issue No.	56 (cont)
LM End	1.35	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_FA_2015_2462.jpg



Pipe, pump, and walkway visible on LS toe.

Photo 3 of 3 : UCIP_FA_2015_2463.jpg



Pipe, gate valve, and siphon breaker visible on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start	1.41	Rating **	M	Issue No.	57
LM End	1.41	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.714049 °	37.714049
				-121.288426 °	-121.288426
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:41351					
DS_ID:20679					
EP_NO: 3975					
FS_HLM: 1.351					
Repair Type: Non-Urgent					
Crossing Status: Found					

LM Start	1.41	Rating **	M	Issue No.	57 (cont)
LM End	1.41	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_5735.jpg



Pipe visible at bottom of ditch on LS toe.

Photo 2 of 3 : UCIP_FA_2015_5736.jpg



Pipe visible at bottom of ditch on LS toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start	1.41	Rating **	M	Issue No.	57 (cont)
LM End	1.41	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.714049 °	37.714049
				-121.288426 °	-121.288426
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:41351					
DS_ID:20679					
EP_NO: 3975					
FS_HLM: 1.351					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_5737.jpg



Siphon breaker in 24-inch CMP riser on WS shoulder.

LM Start	2.04	Rating **	M	Issue No.	58
LM End	2.04	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.708826 °	37.708826 °
				-121.279271 °	-121.279271 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:19423 DS_ID:20681 EP_NO: N/A FS_HLM: 1.977 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: This pipe is abandoned and should be done so properly. FIELD_STRUCT_DESC: 1 of 2: 10-inch pipe through the levee 2.0-feet below the crown. Pump mounted on pile structure in the river. Siphon breaker in 24-inch CMP riser on the LS slope. Power pole on LS toe. Wooden stairs and walkway from the berm to the pump structure. Originally included in the 1968 O&M manual. FS Date: 09/05/2013					

Photo 1 of 3 : UCIP_FA_2015_1167.jpg



Siphon breaker in 24-inch CMP riser on LS slope. Possible gate valve at end of concrete channel on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start	2.04	Rating **	M	Issue No.	58 (cont)	
LM End	2.04	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.708826 °	37.708826 °	
				-121.279271 °	-121.279271 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:19423 DS_ID:20681 EP_NO: N/A FS_HLM: 1.977 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: This pipe is abandoned and should be done so properly. FIELD_STRUCT_DESC: 1 of 2: 10-inch pipe through the levee 2.0-feet below the crown. Pump mounted on pile structure in the river. Siphon breaker in 24-inch CMP riser on the LS slope. Power pole on LS toe. Wooden stairs and walkway from the berm to the pump structure. Originally included in the 1968 O&M manual. FS Date: 09/05/2013						

Photo 2 of 3 : UCIP_FA_2015_1562.jpg



Power pole on LS toe.

Photo 3 of 3 : UCIP_FA_2015_1563.jpg



Pipe cut at wooden pier. No pump on end of pier for this pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start	2.05	Rating **	M	Issue No.	18
LM End	2.51	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.708737 °	37.703893 °
				-121.279087 °	-121.274605 °
DWR ID	DWR_RD2085_01_s _ 2012_18				
Action/Comments					
Ditch					
Inspector Comments: Concrete-lined ditch near levee toe.					

No Photos

LM Start	2.56	Rating **	M	Issue No.	1
LM End	2.58	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.703094 °	37.703094
				121.274894 °	121.274894
DWR ID					
Action/Comments					
Inspector Comments: 09/10/2015: No significant change observed. Signs of animal activity are present. 09/10/2014: No significant change observed. 09/20/2013: No significant change in erosion observed. More vegetation at the site. 12/04/2012: The erosion has progressed remarkably toward levee, extended to the up-and downstream of the original pocket erosion. Trees and dense bush are present at the site. Animal burrow holes are visible, and possibly can cause seepage. 09/22/2010: No significant change observed. There is little visibility due to seasonal grass on the berm and slope. 08/18/2009: Site is located on berm; pocket erosion has developed; the site is covered in dense vegetation; there are several relief wells on the landside of the levee; site is Not Rated because berm width is greater than 30 feet; site should be monitored to keep track of erosion progress. [2015 Site ID:RD2085U01RM66.5]					

Photo 1 of 2 : SJR2015_RD2085U01RM66.50_11.jpg



Direct view of the erosion. Note dense vegetation at the site.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
---	--	--	--	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start	2.56	Rating **	M	Issue No.	1 (cont)
LM End	2.58	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.703094 °	37.703094 °
				121.274894 °	121.274894 °
DWR ID					
Action/Comments					
Inspector Comments: 09/10/2015: No significant change observed. Signs of animal activity are present. 09/10/2014: No significant change observed. 09/20/2013: No significant change in erosion observed. More vegetation at the site. 12/04/2012: The erosion has progressed remarkably toward levee, extended to the up-and downstream of the original pocket erosion. Trees and dense bush are present at the site. Animal burrow holes are visible, and possibly can cause seepage. 09/22/2010: No significant change observed. There is little visibility due to seasonal grass on the berm and slope. 08/18/2009: Site is located on berm; pocket erosion has developed; the site is covered in dense vegetation; there are several relief wells on the landside of the levee; site is Not Rated because berm width is greater than 30 feet; site should be monitored to keep track of erosion progress. [2015 Site ID:RD2085U01RM66.5]					

Photo 2 of 2 : SJR2015_RD2085U01RM66.50_4.jpg



Close view of the erosion.

LM Start	2.58	Rating **	A/W	Issue No.	20
LM End	2.58	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Underseepage Relief Wells			37.702903 °	37.702903 °
				-121.274860 °	-121.274860 °
DWR ID	DWR_RD2085_01_s_2012_20				
Action/Comments					

Photo 1 of 1 : FA_2015_RD2085_113_20_20150910_00005.jpg



View of the underseepage relief wells at the landside levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---	--	---	--	---	--	--	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start	2.81	Rating **	M	Issue No.	59
LM End	2.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.699698 °	37.699698 °
				-121.276325 °	-121.276325 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:19431
DS_ID:20688
EP_NO: 16970
FS_HLM: 2.746
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: The wooden walkway on the WS slope is in disrepair.
FIELD_STRUCT_DESC: 1 of 2: 14-inch steel irrigation pipe through the levee 2.0 feet below the crown. Pump on wooden pier at WS slope.
Siphon breaker visible next to steel bollard on LS slope. Power pole on LS toe.
FS Date: 09/05/2013

LM Start	2.81	Rating **	M	Issue No.	59 (cont)
LM End	2.81	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_1840.jpg



Power pole on LS toe with possible PVC riser.

Photo 2 of 3 : UCIP_FA_2015_1841.jpg



Pipe visible under walkway on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start	2.81	Rating **	M	Issue No.	59 (cont)
LM End	2.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.699698 °	37.699698
				-121.276325 °	-121.276325
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:19431					
DS_ID:20688					
EP_NO: 16970					
FS_HLM: 2.746					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_1842.jpg



Pump on Wooden pier at WS slopoe.

LM Start	2.90	Rating **	M	Issue No.	21
LM End	2.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.698700 °	37.698700 °
				-121.277199 °	-121.277199 °
DWR ID	DWR_RD2085_01_f_2015_21				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	3.03	Rating **	A/W	Issue No.	24
LM End	3.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.697115 °	37.697115 °
				-121.277870 °	-121.277870 °
DWR ID	DWR_RD2085_01_f_2015_24				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start	3.30	Rating **	M	Issue No.	60
LM End	3.30	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.693618 °	37.693618 °
				-121.277639 °	-121.277639 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:19433
 DS_ID:20693
 EP_NO: N/A
 FS_HLM: 3.227
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Pipe appears abandoned and should be done so properly.
 FIELD_STRUCT_DESC: 10-inch steel stormdrain pipe through the levee 4.0-feet below the crown. T-post marks location of Pipe at LS toe. Steel plate welded over pipe on WS slope. Asbuilts available DWG 7-4-1685. Originally included in the 1968 O&M manual.
 FS Date: 09/05/2013

LM Start	3.30	Rating **	M	Issue No.	60 (cont)
LM End	3.30	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_1843.jpg



Pipe visible on WS slope. Steel plate welded over end.

Photo 2 of 3 : UCIP_FA_2015_1844.jpg



Pipe visible on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start	3.30	Rating **	M	Issue No.	60 (cont)
LM End	3.30	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.693618 °	37.693618 °
				-121.277639 °	-121.277639 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:19433 DS_ID:20693 EP_NO: N/A FS_HLM: 3.227 Repair Type: Non-Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_1845.jpg



T-post marking pipe end on LS toe. 10-inch pipe debris on LS toe.

LM Start	3.34	Rating **	N	Issue No.	30
LM End	3.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.693019 °	37.693019
				-121.277892 °	-121.277892
DWR ID	DWR_RD2085_01_s_2014_30				
Action/Comments					
Tree stumps.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start	3.42	Rating **	M	Issue No.	61
LM End	3.42	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.691966 °	37.691966 °
				-121.278122 °	-121.278122 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:19435
 DS_ID:20687
 EP_NO: 16970
 FS_HLM: 3.343
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Appears abandoned and if so should be done so properly.
 FIELD_STRUCT_DESC: 2 of 2: 10-inch steel stormdrain pipe through the levee 2-feet below the crown. Appears to connect to pump 150-feet off LS toe. Possible butterfly valve at LS toe. Vent on WS shoulder. Steel plate welded over pipe end on WS toe.
 FS Date: 09/05/2013

LM Start	3.42	Rating **	M	Issue No.	61 (cont)
LM End	3.42	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_1846.jpg



Vent on WS shoulder.

Photo 2 of 3 : UCIP_FA_2015_1847.jpg



Possible connection at pump 150-feet off LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start	3.42	Rating **	M	Issue No.	61 (cont)
LM End	3.42	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.691966 °	37.691966 °
				-121.278122 °	-121.278122 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:19435					
DS_ID:20687					
EP_NO: 16970					
FS_HLM: 3.343					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_1848.jpg



Possible Butterfly valve at LS toe.

LM Start	3.62	Rating **	A/W	Issue No.	2
LM End	3.75	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.688545 °	37.688545 °
				-121.276298 °	-121.276298 °
DWR ID					
Action/Comments					
Inspector Comments: 08/19/2015: No significant change observed. 7/17/2014: No significant change observed. 09/10/2013: No significant change observed. 12/04/2012: This site has been documented before, and a cost estimate to repair has been prepared dated 05/09/2010. The fresh cut shows the erosion is developing. The berm width is at least 42 feet. Sticks were placed at three locations along the river bank, with 3 sticks 5 feet apart at each location. [2015 Site ID:RD2085U01RM67.7]					

Photo 1 of 2 : SJR2015_RD2085U01RM67.70_4.jpg



Close view of the erosion.

LM Start	3.62	Rating **	A/W	Issue No.	2 (cont)
LM End	3.75	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SJR2015_RD2085U01RM67.70_9.jpg



Direct view of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start	3.71	Rating **	M	Issue No.	25
LM End	3.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.688216 °	37.688216 °
				-121.276603 °	-121.276603 °
DWR ID	DWR_RD2085_01_f_2015_25				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 1 : FA_2015_RD2085_113_25_20151112_00020.jpg



View of the waterside levee slope damaged by vehicle.

LM Start	3.74	Rating **	M	Issue No.	26
LM End	3.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.687841 °	37.687841 °
				-121.276678 °	-121.276678 °
DWR ID	DWR_RD2085_01_f_2015_26				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start	4.03	Rating **	M	Issue No.	62
LM End	4.03	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.683642 °	37.683642 °
				-121.275792 °	-121.275792 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:19443
 DS_ID:20684
 EP_NO: N/A
 FS_HLM: 3.955
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: This pipe appears abandoned and should be done so properly.
 FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee 4.0-feet below the crown. Pump house on the waterward berm. Siphon breaker in 24-inch corrugated metal riser unit on the landside shoulder. Vent on WS toe. 2-inch galvanized iron electrical conduit at same location. Originally included in the 1968 O&M manual.
 FS Date: 09/05/2013

LM Start	4.03	Rating **	M	Issue No.	62 (cont)
LM End	4.03	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_1938.jpg



Pump missing from pipe in pumphouse on WS toe.

Photo 2 of 3 : UCIP_FA_2015_1939.jpg



Siphon breaker on vent in 24-inch CMP riser on LS shoulder.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start	4.03	Rating **	M	Issue No.	62 (cont)
LM End	4.03	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.683642 °	37.683642 °
				-121.275792 °	-121.275792 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:19443					
DS_ID:20684					
EP_NO: N/A					
FS_HLM: 3.955					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_1940.jpg



Pumphouse and pipe visible on WS toe.

LM Start	4.26	Rating **	C	Issue No.	54
LM End	4.53	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.681886 °	37.681332 °
				-121.272333 °	-121.267518 °
DWR ID	DWR_RD2085_01_s _ 2012_54				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	4.40	Rating **	M	Issue No.	33
LM End	4.45	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.681863 °	37.681640 °
				-121.269856 °	-121.269046 °
DWR ID	DWR_RD2085_01_s _ 2012_33				
Action/Comments					
Landscaping					

Photo 1 of 2 : FA_2015_RD2085_113_33_20150910_00007.jpg



View of the landscaping at the landside levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---	--	--	--	--	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start	4.40	Rating **	M	Issue No.	33 (cont)
LM End	4.45	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.681863 °	37.681640 °
				-121.269856 °	-121.269046 °
DWR ID	DWR_RD2085_01_s_2012_33				
Action/Comments					
Landscaping					

Photo 2 of 2 : FA_2015_RD2085_113_33_20150910_00008.jpg



Updated photo of encroachments on landside toe.

LM Start	4.43	Rating **	M	Issue No.	27
LM End	4.43	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.681710 °	37.681710 °
				-121.269290 °	-121.269290 °
DWR ID	DWR_RD2085_01_f_2015_27				
Action/Comments					
Material					

Photo 1 of 1 : FA_2015_RD2085_113_27_20151112_00021.jpg



View of the material stored at the landside levee toe.

LM Start	4.46	Rating **	N	Issue No.	32
LM End	4.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.681605 °	37.681605 °
				-121.268882 °	-121.268882 °
DWR ID	DWR_RD2085_01_s_2012_32				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : FA_2015_RD2085_113_32_20150910_00006.jpg



11/03/2011 Large stump on landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start	4.49	Rating **	U	Issue No.	28
LM End	4.49	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.681453 °	37.681453 °
				-121.268327 °	-121.268327 °
DWR ID	DWR_RD2085_01_f_2015_28				
Action/Comments					
Landscaping					

Photo 1 of 1 : FA_2015_RD2085_113_28_20151112_00022.jpg



View of the unmaintained vegetation at the landside levee toe.

LM Start	4.59	Rating **	M	Issue No.	17
LM End	4.59	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.681158 °	37.681158 °
				-121.266587 °	-121.266587 °
DWR ID	DWR_RD2085_01_f_2013_17				
Action/Comments					
Firewood					

Photo 1 of 1 : FA_2015_RD2085_113_17_20151112_00023.jpg



View of the firewood stored at the landside levee toe.

LM Start	4.78	Rating **	A/W	Issue No.	36
LM End	4.78	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.679527 °	37.679527 °
				-121.265367 °	-121.265367 °
DWR ID	DWR_RD2085_01_s_2012_36				
Action/Comments					
Building					
Inspector Comments: Monitoring station on waterward side.					

Photo 1 of 1 : FA_2015_RD2085_113_36_20150910_00010.jpg



04/28/2011 Monitoring station.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start	4.78	Rating **	A/W	Issue No.	35
LM End	4.78	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.679526 °	37.679526 °
				-121.265367 °	-121.265367 °
DWR ID	DWR_RD2085_01_s_2012_35				
Action/Comments					
Stairway					
Inspector Comments: Stairs for monitoring station on landside slope.					

Photo 1 of 1 : FA_2015_RD2085_113_35_20150910_00009.jpg



04/28/2011 Stairs on landside slope for monitoring station.

LM Start	5.02	Rating **	M	Issue No.	22
LM End	5.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.677830 °	37.677830 °
				-121.268769 °	-121.268769 °
DWR ID	DWR_RD2085_01_f_2013_22				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	5.23	Rating **	M	Issue No.	63
LM End	5.23	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.675244 °	37.675244 °
				-121.269287 °	-121.269287 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:22290 DS_ID:24058 EP_NO: N/A FS_HLM: 5.14 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee at unknown depth below the crown. Siphon breaker in 10-inch steel riser on LS shoulder. FS Date: 09/10/2013					

Photo 1 of 3 : UCIP_FA_2015_2453.jpg



Pipe visible at pond outlet off LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start	5.23	Rating **	M	Issue No.	63 (cont)	
LM End	5.23	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.675244 °	37.675244 °	
				-121.269287 °	-121.269287 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:22290						
DS_ID:24058						
EP_NO: N/A						
FS_HLM: 5.14						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: No permit identified for this crossing.						
FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee at unknown depth below the crown. Siphon breaker in 10-inch steel riser on LS shoulder.						
FS Date: 09/10/2013						

LM Start	5.23	Rating **	M	Issue No.	63 (cont)
LM End	5.23	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_FA_2015_2454.jpg



Cuts in pavement may indicate alignment of pipe at LS toe.

Photo 3 of 3 : UCIP_FA_2015_2455.jpg



Siphon breaker in 10-inch steel riser on LS shoulder.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start	5.24	Rating **	N	Issue No.	29
LM End	5.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.675099 °	37.675099
				-121.269264 °	-121.269264
DWR ID	DWR_RD2085_01_f _ 2015_29				
Action/Comments					
Tree stumps.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Reclamation District No. 2085 Kasson

Waterway			Bank	Unit Miles
Unit No. 02 San Joaquin River				0.70
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	04/09/2015 - 04/09/2015		11/10/2015 - 11/10/2015	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Ralph Timan RD2085		Ralph Timan RD2085	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.70	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start	0.07	Rating **	A	Issue No.	4
LM End	0.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.705740 °	37.705740 °
				-121.274151 °	-121.274151 °
DWR ID	DWR_RD2085_02_f_2015_4				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA_2015_RD2085_114_4_20151112_00003.jpg



View of the acceptable vegetation control on the waterside levee slope.

LM Start	0.46	Rating **	C	Issue No.	3
LM End	0.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.710991 °	37.710991 °
				-121.271462 °	-121.271462 °
DWR ID	DWR_RD2085_02_s_2015_3				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

No Photos

LM Start	0.68	Rating **	C	Issue No.	1
LM End	0.68	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.713838 °	37.713838 °
				-121.269690 °	-121.269690 °
DWR ID	DWR_RD2085_02_s_2012_1				
Action/Comments					
Equipment					
Inspector Comments: Heavy equipment is being stored on the levee crown. Remove equipment from levee slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Reclamation District No. 2085 Kasson

Waterway			Bank	Unit Miles
Unit No. 03 San Joaquin River				0.29
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/09/2015 - 04/09/2015		11/10/2015 - 11/10/2015	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Ralph Timan RD2085		Ralph Timan RD2085	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River		0.29	11/10/2015 11/10/2015	Maksim Khashchuk

LM Start	0.02	Rating **	A	Issue No.	4
LM End	0.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.680772 °	37.680772 °
				-121.264359 °	-121.264359 °
DWR ID	DWR_RD2085_03_s _ 2015_4				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : FA_2015_RD2085_115_4_20151112_00003.jpg



View of the acceptable vegetation control on the waterside levee slope.

LM Start	0.21	Rating **	U	Issue No.	1
LM End	0.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.682798 °	37.683052 °
				-121.262059 °	-121.261851 °
DWR ID	DWR_RD2085_03_s _ 2014_1				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Erosion of the waterside levee slope has been observed. The erosion is about 3 feet tall vertical from the slope to the base of projected levee toe.					

Photo 1 of 1 : FA_2015_RD2085_115_1_20151112_00004.jpg



View of the erosion at the waterside levee toe.

LM Start	0.22	Rating **	A/W	Issue No.	6
LM End	0.22	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.682844 °	37.682844 °
				-121.262002 °	-121.262002 °
DWR ID	DWR_RD2085_03_f _ 2015_6				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--